

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jul 2026

Evaluation of the effect of PRP (Platelet-Rich Plasma) enriched with vitamin C on skin graft site in burn patients

Protocol summary

Study aim

The effect of Plasma Rich Plasma (PRP) fortified with vitamin C on wound healing and pain relief can be useful in achieving better therapeutic effects and reducing the healing time and complications of skin grafting, especially among burn patients.

Design

A clinical trial with a control group, with parallel groups, a blind strain, was used on 30 patients.

Settings and conduct

Hospital .Burn section. After collecting complete information from the study, the two groups under study are coded with the names A and B. In such a way that the data analyst does not know the treatment method and after the data analysis, the treatment methods will replace the letters.

Participants/Inclusion and exclusion criteria

All burn hospitals that require skin grafts are included in the study. Patients with underlying disease and addiction are excluded from the study.

Intervention groups

All burn hospitals that require skin grafts are included in the study. Patients with underlying disease and addiction are excluded from the study.

Main outcome variables

Age, Gender, Pain, Appearance, Pathology.'

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20220620055224N1**

Registration date: **2022-07-13, 1401/04/22**

Registration timing: **prospective**

Last update: **2022-07-13, 1401/04/22**

Update count: **0**

Registration date

2022-07-13, 1401/04/22

Registrant information

Name

alireza narimani

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 71 3623 0866

Email address

alirezanarimani7799@yahoo.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-07-23, 1401/05/01

Expected recruitment end date

2023-07-23, 1402/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the effect of PRP (Platelet-Rich Plasma) enriched with vitamin C on skin graft site in burn patients

Public title

The effect of prp enriched with vitamin C on the skin donor site

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Burn patients need a graft

Exclusion criteria:

Addiction Underlying disease

Age
No age limit

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **30**
More than 1 sample in each individual
Number of samples in each individual: **2**
In each patient after graft removal at the end of the operation, the dressing method of the two sides is different.

Randomization (investigator's opinion)
N/A

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Kerman University of Medical Sciences

Street address

Bahonar hospital, Gharani St, Kerman Town.

City

Kerman

Province

Kerman

Postal code

7613747181

Approval date

2022-04-10, 1401/01/21

Ethics committee reference number

IR.KMU.AH.REC.1401.010

Health conditions studied

1

Description of health condition studied

Burn patients

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Assessing pain using a pain scale.

Timepoint

The amount of pain on a daily basis for up to 5 days.

Method of measurement

Patient pain rate using Visual analog scale(VAS)

2

Description

Examining the pathology of the donor graft site.

Timepoint

Pathology examination on the fifth day after graft removal.

Method of measurement

microscope.

Secondary outcomes

1

Description

Evaluation of patients' pain based on visual analog scale(VAS)

Timepoint

Daily

Method of measurement

Visual analogue scale

Intervention groups

1

Description

Intervention group: 20 cc of the patient's blood is taken and its plasma is separated by a centrifuge and mixed with vitamin C at a concentration of 15% and sprayed daily for 5 days at the donor graft site.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Shafa hospital

Full name of responsible person

Dr. Seyed Hasan Hosseini Hushyar

Street address

Shafa hospital, Kowsar Blvd, Kerman Town.

City

Kerman

Province

Kerman

Postal code

7618751151

Phone

+98 34 3211 5780

Email

shafahospital@kmu.ac.ir

Web page address

https://sh.kmu.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Kerman University of Medical Sciences.

Full name of responsible person

Dr. Reza Malekpour

Street address

Bahonar University, Pajouhesh sq, Imam Khomeini Highway, Kerman Town.

City

Kerman

Province

Kerman

Postal code

7616913439

Phone

+98 34 3325 7141

Email

chancellor@uk.ac.ir

Web page address

https://uk.ac.ir

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Kerman University of Medical Sciences.

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Kerman University of Medical Sciences

Full name of responsible person

Dr. Seyed Hasan Hosseini Hushyar

Position

Associate professor

Latest degree

Subspecialist

Other areas of specialty/work

General Surgery

Street address

Bahonar Hospital, Gharani st, Kerman Town.

City

Kerman

Province

Kerman

Postal code

7613747181

Phone

+98 34 3223 5011

Email

bahonarhospital@kmu.ac.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity

Kerman University of Medical Sciences

Full name of responsible person

Dr. Seyed Hasan Hosseini Hushyar

Position

Associate professor

Latest degree

Subspecialist

Other areas of specialty/work

General Surgery

Street address

Bahonar Hospital, Gharani st, Kerman Town.

City

Kerman

Province

Kerman

Postal code

7613747181

Phone

+98 34 3223 5011

Email

bahonarhospital@kmu.ac.ir

Person responsible for updating data

Contact

Name of organization / entity

Kerman University of Medical Sciences

Full name of responsible person

Dr. Seyed Hasan Hosseini Hushyar

Position

Associate professor

Latest degree

Subspecialist

Other areas of specialty/work

General Surgery

Street address

Bahonar Hospital, Gharani st, Kerman Town.

City

Kerman

Province

Kerman

Postal code

7613747181

Phone

+98 34 3223 5011

Email

bahonarhospital@kmu.ac.ir

Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

After preserving the personal information of the patients, all the information collected from the patients will be available after observing the ethical principles.

When the data will become available and for how long

After gathering information and completing the study

To whom data/document is available

All university centers

Under which criteria data/document could be used

Based on ethical principles and the opinion of the ethics committee

From where data/document is obtainable

Ethics committee

What processes are involved for a request to access data/document

The process is based on ethical principles

Comments